

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

September 15, 2004

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

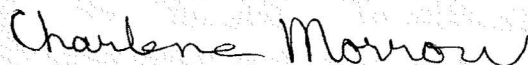
Included are the results from the testing of material submitted on September 14, 2004 from the D002 Drum ID, PO# M104895, F&BI 409121 project. We were asked to examine a sludge sample which was apparently undergoing a reaction that caused pressure buildup in storage drums. Our investigation showed that addition of a strong acid caused a more vigorous reaction, and addition of a base caused the reaction to slow down. We believe that one of the metals present in the sample is undergoing a slow reaction which is releasing oxygen gas. We recommend that the storage drums containing this sludge material be covered and loosely closed to allow the oxygen gas to escape without danger of bursting the storage drums. To prevent this situation from occurring in the future, we could try to identify the source of the problem. We suspect that it was caused by one of the metal sheets that were cut. If you would provide us with a list of the types of metals that were cut in the last 2 weeks, we could determine if any of them have the potential to create the problem that was noted.

Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0915R.DOC

FRIEDMAN & BRUYA, INC.

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September 15, 2004

DUPLICATE COPY

INVOICE #04ACU0915-1C

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project D002 Drum ID, PO# M104895, F&BI 409121 - Results of testing
requested by 628 South Hanford for material submitted on September 14,
2004.

2 hours consulting by a Chemist
@ \$90 per hour

\$ 180.00

Amount Due

\$ 180.00

FEDERAL TAX ID # (b) (6)

409121

SAMPLE CHAIN OF CUSTODY

CM 09-14-04

A05

Send Report To

GERARD Thompson

Company

ALASKAN Copper Works

Address

628 S. Harvard St

City, State, ZIP

Seattle WA 98134

Phone #

206-382-8379

Fax #

206-382-4309

SAMPLERS (signature)

PROJECT NAME/NO.

Dooz Drum ID

PO #

M104895

REMARKS

Why is reaction occurring?

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED											Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS						
M104895	01	9/14/04	1:00	sludge	1												

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FORMS\COC\COC.DOC

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

COMPANY

DATE

TIME

GERARD Thompson

Aew

9/14/04 2:10

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Friedman & Bruya

9/14/04 1

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INVOICE #04ACU0915-1

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